# Merge k Sorted Lists (View)

You are given an array of k linked-lists lists, each linked-list is sorted in ascending order.

Merge all the linked-lists into one sorted linked-list and return it.

#### **Example 1:**

```
Input: lists = [[1,4,5],[1,3,4],[2,6]]
Output: [1,1,2,3,4,4,5,6]
Explanation: The linked-lists are:
[
    1->4->5,
    1->3->4,
    2->6
]
merging them into one sorted list:
1->1->2->3->4->4->5->6
```

## **Example 2:**

```
Input: lists = []
Output: []
```

### **Example 3:**

```
Input: lists = [[]]
Output: []
```

### **Constraints:**

```
k == lists.length0 <= k <= 10^4</li>
```

```
• 0 <= lists[i].length <= 500
```

- -10^4 <= lists[i][j] <= 10^4
- lists[i] is sorted in ascending order.
- The sum of lists[i].length won't exceed 10^4.